

On September 8, 2005 United Water Toms River filed an application, for approval of plans to divert 770 million gallons per month, not to exceed 6,010 million gallons in a year at a maximum rate of 20,200 gallons per minute from Water Allocation Permit Nos. 5000 and 5001. This request represents an increase in monthly allocation of 216 million gallons above the existing monthly allocation of 554 mg, an increase of 1,728 mg above the existing annual allocation of 4,282 mg and the addition of 2 new Aquifer Storage and Recovery Wells ASR 46 and ASR 47 completed in the Middle PRM aquifer.

United Water Toms River has also requested an increase in the monthly allocation from the Piney Point aquifer from 172 mgm to 240 mgm and the establishment of an annual allocation of 1,560 mgy, an establishment of a monthly allocation from the Kirkwood-Cohansey aquifer of 238.5 mgm, an increase of the combined monthly allocation of the Kirkwood-Cohansey aquifer from Water Allocation Permit Nos. 5000 and 5001 from 400 mgm to 440 mgm and the establishment of an annual allocation of 3,000 mgy, and the establishment of an annual allocation from the Upper PRM aquifer of 940 mgy.

Bureau Findings

- The applicant's Well 30 is located within the depleted portion of the Middle Potomac-Raritan-Magothy aquifer of the Area of Critical Water Supply Concern No. 1 and its portion of the safe and dependable yield (base allocation) of that aquifer has been determined to be 629.591 mgy;
- The use of Aquifer Storage and Recovery Wells 46 and 47 is in accordance with recommendations of the New Jersey Statewide Water Supply Plan;
- An additional 68 mgm and an annual allocation of 1,560 mgy from the Piney Point aquifer should not cause water levels in the aquifer to decline below the top of the aquifer, dewatering the aquifer;
- The applicant has historically diverted 40 mgm less than their existing Kirkwood-Cohansey allocation;
- Ground water modeling indicates that increases in Cohansey diversion at the Parkway Well Field above current amounts, may spread pollution;
- The applicant has requested to keep their existing Upper PRM monthly allocation limit although they can not physically pump their

allocation with Wells 42 and 45 alone (since the proposed third Upper PRM Well 46 was never constructed);

- The individual aquifer allocations and pumping capacity limitations and the allocation requests filed as part of the application limit the amounts of any additional combined allocations that can be granted;
- The applicant has the ability to purchase water from New Jersey American, Island Heights, and Manchester Township, which are considered as alternate sources of water. However, due to growth within these other systems, in the future they may not have water to sell to the applicant. Therefore, the applicant should plan accordingly in order to meet future needs.

Recommendations

Based upon the information submitted by United Water Toms River, the New Jersey Geological Survey analysis of the applicant's aquifer test, and a review of the application and technical report, the Bureau concluded based upon the information reviewed to date that:

- The base allocation of 629.591 mgd for Well 30 from the MPRM should be carried forward;
- MPRM Wells 46 and 47 operating as ASR sources at 2100 gpm (each) should be granted;
- The increase in the monthly allocation from the Piney Point aquifer from 172 mgd to 240 mgd and the establishment of an annual allocation of 1,560 mgd should be granted;
- The requested increase in the monthly allocation from the Kirkwood/Cohansey aquifer by 40 mgd should not be granted;
- In order to maintain control of the existing long-term steady-state aquifer conditions in the Kirkwood - Cohansey aquifer, the Department should establish new monthly and annual allocation limits on the Parkway Well Field Kirkwood-Cohansey diversion sources. This will ensure that no additional Parkway Well Field diversion will occur above the amount diverted in 1999 (a drought year);
- Allocations of 188 mgd and 2,256 mgd from Kirkwood-Cohansey aquifer sources under Permit No. 5001 should be granted;
- The combined monthly allocation of the Kirkwood-Cohansey aquifer from Water Allocation Permit Nos. 5000 and 5001 should be reduced from 400 mgd to 389.5 mgd;

- An annual allocation from all diversion sources under Water Allocation Permit No. 5001 of 5,385.591 mgy should be granted;
- If the proposed Upper PRM well and/or production increases are not approved by the Bureau and operational within 5 years of the effective date of this permit, the monthly Upper PRM allocation will be reduced to 100.44 mgm, and the proposed well will be removed from the permit;
- The establishment of an annual allocation from the UPRM aquifer of 940 mgy should be granted;
- An increase of the combined monthly allocation from 554 mgm to 663 mgm and the increase of the combined annual allocation from 4,282 mgy to 5,860 mgy from Water allocation Permit Nos. 5000 and 5001 should be granted;

These actions are recommended as the applicant has satisfied the requirements of N.J.A.C. 7:19-2.2.